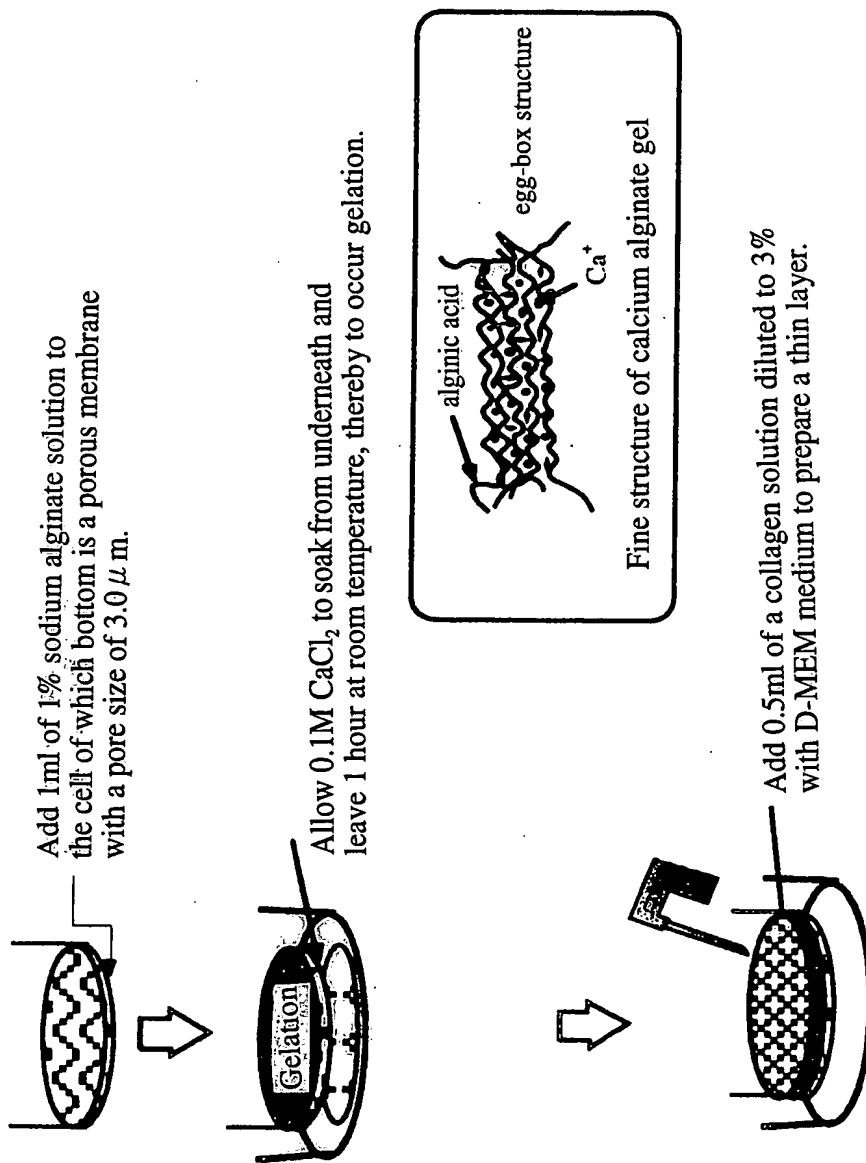


FIG. 1

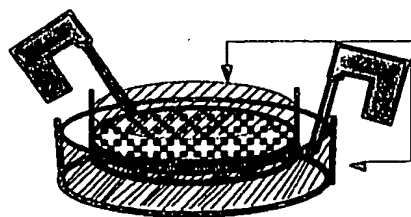


Gelation in  $CO_2$  incubator at  $37^\circ C$  for 20 minutes.

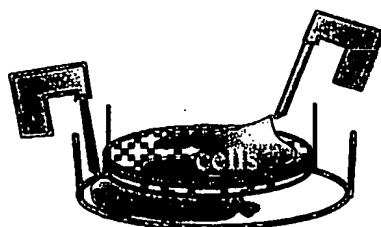
BEST AVAILABLE COPY



FIG. 2

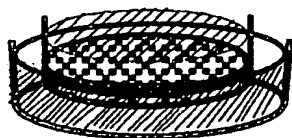


Add D-MEM medium, 2 ml into the cell and 3 ml to a schale, and then infiltrate overnight.



Remove the medium in the cell or schale, spread 10,000 cells (0.5ml) of fibroblast collected by trypsin treatment, and add 3ml of D-MEM medium to the schale.

Leave in a 0.5% CO<sub>2</sub> incubator for about 1 hour at 37°C to allow the attachment of fibroblast.

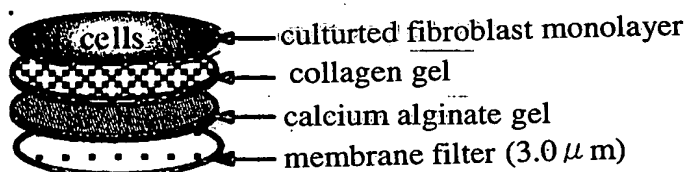


Exchange the medium on Day 2 after culture, and further culture for a period of one day to form a confluent cell monolayer.



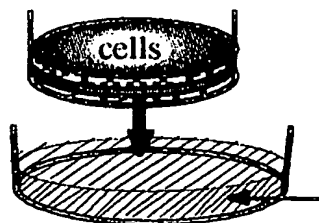
...

Laminate structure of gel and cultured cell monolayer

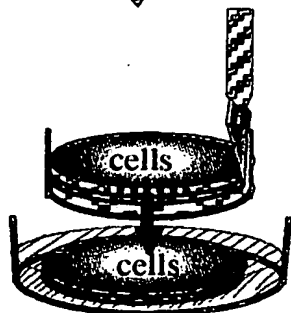


BEST AVAILABLE COPY

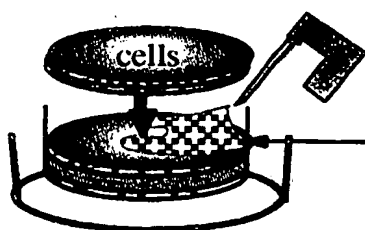
FIG. 3



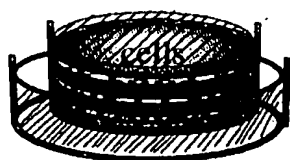
Soak the cell into 0.1M EDTA solution to dissolve the calcium alginate gel and liberate it from the membrane filter



Remove extra water from the cell by suction, insert a scalpel through the inner wall of the cell to hollow the filter, thereby suspending a cell sheet of collagen gel in D-MEM medium.



Add 0.5ml of a collagen solution onto the gel sheet which is not suspended, and overlay a gel formed in the same manner as above



Culture three cell layers laminated with a sandwiched collagen gel, in D-MEM medium.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**